

Title (en)

INFRARED IMAGING OF (ULTRA)SONICALLY EXCITED SUBSURFACE DEFECTS IN MATERIALS

Title (de)

INFRAROTBILDDARSTELLUNG VON DEFECTEN UNTER DER OBERFLÄCHE VON (ULTRA)SCHALLANGEREGETEN MATERIALIEN

Title (fr)

IMAGERIE EN INFRAROUGE DE DEFECTS PROFONDS EXCITES PAR (ULTRA)SONS DANS DES MATERIAUX

Publication

EP 1214588 A1 20020619 (EN)

Application

EP 00963516 A 20000915

Priority

- US 0025373 W 20000915
- US 39758599 A 19990916

Abstract (en)

[origin: WO0120319A1] A thermal imaging system (10) for detecting cracks and defects in a component (12). An ultrasonic transducer (14) is coupled to the specimen (12) through a malleable coupler (16). Ultrasonic energy from the transducer (14) causes the defects to heat up, which is detected by a thermal camera (22). The ultrasonic energy is in the form of a pulse where the frequency of the ultrasonic signal is substantially constant within the pulse. A control unit (30) is employed to provide timing and control for the operation of the ultrasonic transducer (14) and the camera (22).

IPC 1-7

G01N 29/24

IPC 8 full level

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